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## **CLAIMS**

- 1. A timepiece module comprising:
  - (a) a timer having (i) a driver; (ii) a controller; and (iii) an output; and
  - (b) a bi-stable display coupled to the timer output; wherein the controller switches
- 5 power to the display less than 60 times a minute.
  - 2. The timepiece module of Claim 1 wherein said display is powered no more than once per minute.
- 10 3. The timepiece module of Claim 1 wherein said display is powered no more than twice a minute.
  - 4. The timepiece module of Claim 1 wherein said display is powered no more than three times a minute.
  - 5. The timepiece module of Claim 1 wherein said display is powered no more than ten times a minute.
- 6. The timepiece module of Claim 1 wherein said bi-stable display is an electrophoretic display.
  - 7. The timepiece module of Claim 1 wherein said bi-stable display is a gyricon display.
- 25 8. The timepiece module of Claim 1 wherein said bi-stable display is flexible.
  - 9. The timepiece module of Claim 1 wherein said bi-stable display is invertable.
- 10. The timepiece module of Claim 1 wherein said display comprises a plurality of30 addressable segments.

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- 11. The timepiece module of Claim 9 wherein said invertable display can display a dark segment on a light background.
- 12. The timepiece module of Claim 9 comprises a driver that can invert the display to display a light segment on a dark background.
- 13. The timepiece module of Claim 9 wherein the controller inverts the display at a predetermined rate.
- 10 14. The timepiece module of Claim 9 wherein a user can selectively invert the display.
  - 15. The timepiece module of Claim 1 further comprises a voltage source coupled to the timer.
  - 16. The timepiece module of Claim 15 wherein said voltage source comprises a battery.
- 17. The timepiece module of Claim 15 wherein said voltage source comprises a solar 20 cell.
  - 18. The timepiece module of Claim 15 wherein said voltage source comprises a mechanical source.
- 25 19. The timepiece module of Claim 15 wherein said voltage source is a thermal source.
  - 20. The timepiece module of Claim 1 further comprises a light source adjacent to the bi-stable display, wherein said display is reflective and wherein said light source
- 30 illuminates the display.

- 21. The timepiece module of Claim 20 wherein said light source is an LED.
- 22. The timepiece module of claim 20 wherein said light source is an EL.
- 5 23. The timepiece module of Claim 1 wherein said bi-stable display is bi-chromatic.
  - 24. The timepiece module of Claim 1 wherein said bi-stable display is polychromatic.
- 10 25. The timepiece module of Claim 1 wherein said time further comprises a voltage step-up circuit.

- 26. A timepiece module comprising:
  - (a) a timer having (i) a driver; (ii) a controller; and (iii) an output; and
- (b) a bi-stable display coupled to the timer output; wherein the controller switches power to the display less than 60 times a minute.
- 5 (c) light source adjacent to the bi-stable display, wherein said display is reflective and wherein said light source illuminates the display.
  - 27. The timepiece module of Claim 26 wherein said light source is an LED.
- 10 28. The timepiece module of claim 26 wherein said light source is an EL.
  - 29. The timepiece module of Claim 26 wherein said display is an electrophoretic display.
- 15 30. The timepiece module of Claim 26 wherein said display is a gyricon display.
  - 31. The timepiece module of Claim 26 wherein said b-stable display is optimized to maintain a state for no less than one minute.
- 20 32. The timepiece module of Claim 26 wherein said timer includes a voltage step-up circuit comprising a series of cascading diodes.

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- 33. A timepiece module comprising:
  - (a) a timer having (i) a driver; (ii) a controller; and (iii) an output; and
- (b) a bi-stable display having an invertable display, and coupled to the timer output; wherein the controller switches power to the display less than 60 times a minute,
- 5 and wherein said timer can have an alarm that triggers the inversion of the display.
  - 34. The timepiece module of Claim 33 wherein said display is invertable between a first state and a second state.
- 10 35. The timepiece module of Claim 33 wherein said invertable display can display a dark segment on a light background.
  - 36. The watch of Claim 33 wherein the driver inverts the display at a predetermined rate.

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